

## Wastewater 1 Exam Question Breakdown

Objective	# of Questions on Topic
Activated Sludge	1
Anaerobic Digestion	2
Blowers & Compressors	2
CCC & Backflow	1
Clarification	7
Compliance	2
Direction & Control	1
Disinfection	3
Drives	3
Effluent Discharge-Math	1
Electricity	1
Finances	1
Finances-Math	1
Flow Measurement	2
Flow Measurement-Math	2
General Safety	2
Hydraulics	1
Infiltration/Inflow	1
Information	1
Laboratory	15
Laboratory-Math	2
Lagoons	1
Maintenance Management	4
General Math	3
Motors	2
Primary Treatment	1
Pumps	8
Science	3
Screening	4
Sewer Equipment	2
Sewers	1
Sources & Characteristics	5
Trickling Filters	3
Valves	4
Waste Stabilization Ponds	7

## Wastewater 2 Exam Question Breakdown

Objective	# of Questions on Topic
Activated Sludge	7
Activated Sludge-Math	2
Aerobic Digestion	1
Anaerobic Digestion	6
Blowers & Compressors	1
Chemical Feeders-Math	1
Clarification	4
Clarification-Math	2
Compliance	3
Disinfection	5
Disinfection-Math	1
Drives	2
Effluent Discharge-Math	2
Electrical Controls	1
Emergency Response	1
Flow Measurement-Math	2
General Safety	1
Grinding	1
Grit Removal	1
Hydraulics	3
Hydraulics-Math	1
Infiltration/Inflow	1
Information	1
Laboratory	10
Laboratory-Math	1
Land Application	1
Lift Stations	1
Maintenance Management	2
Measuring & Control	5
Motors	2
Personnel	1
Pipes	1
Public Health	1
Pumps	5
Pumps-Math	2
RBC	1
Science	3
Screening	1
Sewers	2
Sludge Dewatering	1
Solids Handling	1

<b>Sources &amp; Characteristics</b>	<b>5</b>
<b>Valves</b>	<b>3</b>
<b>Waste Stabilization Ponds</b>	<b>1</b>

## Wastewater 3 Exam Question Breakdown

Objective	# of Questions on Topic
Activated Sludge	5
Activated Sludge-Math	2
Aerobic Digestion	1
Anaerobic Digestion-Math	1
Anaerobic Digestion	6
Blowers & Compressors	1
CCC & Backflow	1
Chemical Addition-Math	1
Chemical Feeders	1
Chemical Feeders-Math	1
Clarification	2
Clarification-Math	1
Coagulation & Flocculation	2
Compliance	3
Disinfection	4
Drives	1
Electrical Controls	1
Emergency Response	1
Finances-Math	1
Flow Measurement-Math	1
General Safety	3
Grinding	1
Grit Removal	1
Grit Removal-Math	1
Hydraulics	1
Infiltration/Inflow	1
Information	1
Inspect System	1
Laboratory	9
Laboratory-Math	2
Land Application	1
Maintenance Management	3
General Math	1
Measuring & Control Systems	2
Mechanical Maintenance	1
Motors	1
Personnel	2
Planning	1
Public Relations	1

<b>Pumps</b>	<b>6</b>
<b>Pumps-Math</b>	<b>1</b>
<b>RBC</b>	<b>1</b>
<b>Recordkeeping</b>	<b>1</b>
<b>Sewers</b>	<b>1</b>
<b>Sludge Belt Press</b>	<b>1</b>
<b>Sludge Digestion</b>	<b>1</b>
<b>Sludge Digestion-Math</b>	<b>1</b>
<b>Sludge Drying Beds-Math</b>	<b>1</b>
<b>Sludge Filter Press-Math</b>	<b>1</b>
<b>Sludge Thickening-Math</b>	<b>2</b>
<b>Sludge Vacuum Filter</b>	<b>1</b>
<b>Sources &amp; Characteristics</b>	<b>7</b>
<b>Trickling Filters</b>	<b>4</b>

## Wastewater 4 Question Breakdown

Objective	# of Questions on Topic
Activated Sludge	6
Activated Sludge-Math	3
Aerobic Digestion	1
Anaerobic Digestion-Math	1
Blowers & Compressors	1
Chemical Addition	2
Chemical Addition-Math	1
Chemical Feeders	1
Clarification	4
Clarification-Math	1
Collection Systems	1
Compliance	2
Disinfection	4
Disinfection-Math	1
Effluent Discharge-Math	1
Electrical Controls	1
Finances	1
Finances-Math	2
Flow Measurement	1
Flow Measurement-Math	1
General Safety	4
Grit Removal	1
Grit Removal-Math	1
Infiltration/Inflow	1
Laboratory	13
Laboratory-Math	1
Land Application	1
Lift Stations	1
Maintenance Management	1
Measuring & Control Systems	1
Motors	1
Motors-Math	1
Nitrogen Removal	1
Personnel	5
Pipes	1
Planning	1
Planning-Math	1
Public Health	1
Pumps	4
Pumps-Math	3
RBC	2

<b>Rules &amp; Regulations</b>	<b>1</b>
<b>Sewer Equipment</b>	<b>1</b>
<b>Sewer Lines</b>	<b>1</b>
<b>Sewers</b>	<b>1</b>
<b>Sludge Centrifuges</b>	<b>1</b>
<b>Sludge Filter Press-Math</b>	<b>1</b>
<b>Sludge Thickening</b>	<b>2</b>
<b>Solids Handling-Math</b>	<b>1</b>
<b>Sources &amp; Characteristics</b>	<b>4</b>
<b>Trickling Filters</b>	<b>1</b>
<b>Trickling Filters-Math</b>	<b>2</b>
<b>Units of Expression-Math</b>	<b>1</b>
<b>Valves</b>	<b>1</b>

## Wastewater Lagoon 1 Need to Know

Objective	# of Questions on Topic
Anaerobic Digestion	1
Blowers & Compressors Math	1
Blowers & Compressors	1
Compliance	1
Disinfection	2
Drives	1
Electrical Controls	1
Flow Measurement	1
Flow Measurement -Math	2
General Safety	3
Hydraulics	1
Hydraulics -Math	1
Infiltration/Inflow	1
Information	3
Laboratory	10
List Stations	2
Maintenance Management	3
General Math	3
Measuring & Control Systems	2
Motors	1
Public Relations	3
Pumps	9
Science	4
Screening	1
Sewer Equipment	2
Sewers	2
Sources & Characteristics	5
Valves	3
Waste Stabilization Ponds	25
Waste Stabilization Ponds Math	5